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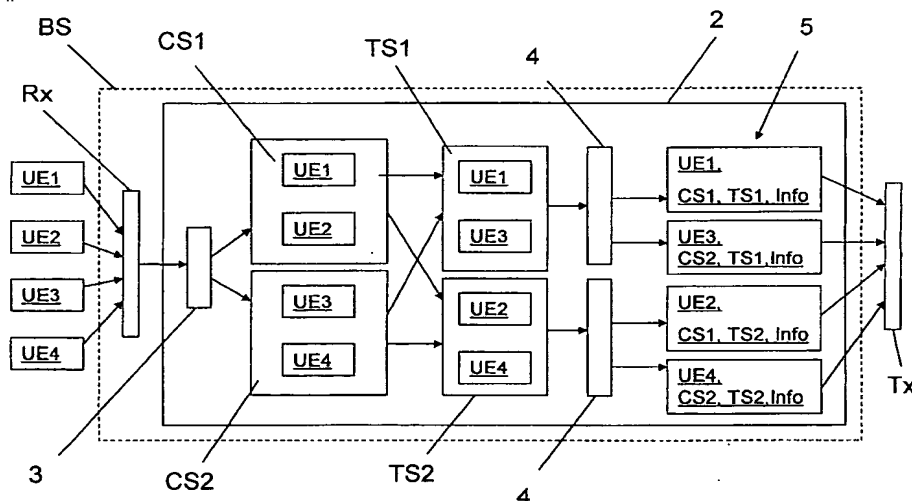
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(54) Title: **METHOD AND ARRANGEMENT FOR MINIMIZING INTRACELL INTERFERENC IN A DATA TRANSMISSION SYSTEM**



(57) Abstract: The invention refers to an arrangement and a method for minimizing intracell and/or intercell interference for a data transmission system comprising a scheduler (2). A first base station (BS) receives information from user equipments (UE1-UE4) in a first cell (1), by means of a first antenna system (Rx, Tx). The scheduler (2) identifies the position of each user is and allots a first time slot (TS1) to at least one user equipment (UE1) in a first cell segment (CS1) in the first cell (1). The scheduler (2) also allots the first time slot to at least one user (UE3) equipment in a second cell segment (CS2) in the first cell (1). The antenna system (Rx, Tx) then sends information from the base station (BS) simultaneously to all user equipments (UE1, UE3) allotted to the first time slot.

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